

draft-gould-regex-dataset

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draft-gould-regex-dataset Purpose

- Define a Data Set File (DSF) format that can be used to define and pass bulk data between a client and a server, and for the server to provide the results to the client.
 - Input: A single file that includes the operation meta-data, format, and data
 - Output: A single file that includes the result meta-data, format, and data
- Example: Use DSF to support “an alternative bulk transfer mechanism” for the Implementation of GNSO Thick RDDS (Whois) Transition Policy for .COM,.NET and .JOBS.

draft-gould-regex-dataset Approach

- Header that includes the following:
 - Type value with optional sub-type
 - Convention: <object>.<operation>.<description>
 - Ex: “domain.update.contacts” or “contact.create.routing”
 - Field definitions (order, simple XSD type, “isRequired” flag)
 - Meta-data (client identifier, creation date)
- CSV body that conforms to field definition in header
- Field definitions defined for
 - Domain Name, Host, Contact, and Verification Code objects
- Extensible to support other objects and fields

draft-gould-regex-dataset ABNF

```
file          = header body
header        = dataSet-1-0 LF
dataSet-1-0   = 1*(1*VCHAR LF) ; compliant to dataSet-1.0
body          = start [data] end
start         = "-----BEGIN DATA SET-----" LF
data          = 1*VCHAR LF ; CSV compliant <dataSet:fields>
end           = "-----END DATA SET-----" *1LF
```

“domain.update.contacts” DSF Sample

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<dataSet:definition
  xmlns:dataSet= "urn:ietf:params:xml:ns:dataSet-1.0"
  xmlns:dsfDomain= "urn:ietf:params:xml:ns:dsfDomain-1.0">
  <dataSet:defData>
    <dataSet:type>domain.update.contacts</dataSet:type>
    <dataSet:fields>
      <dsfDomain:fName/>
      <dsfDomain:fContact role="registrant" isRequired="true"/>
      <dsfDomain:fContact role="admin" isRequired="true"/>
      <dsfDomain:fContact role="tech" isRequired="true"/>
      <dsfDomain:fContact role="billing" isRequired="false"/>
    </dataSet:fields>
    <dataSet:dataSetId>abc-123</dataSet:dataSetId>
    <dataSet:crDate>2016-04-03T22:00:00.OZ</dataSet:crDate>
  </dataSet:defData>
</dataSet:definition>
...
```

```
...
-----BEGIN DATA SET-----
domain1.example,jd1234,sh813,sh813,sh813
domain2.example,jd1234,sh813,sh813,
-----END DATA SET-----
```

DSF Result Sample

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<dataSet:definition
  xmlns:dataSet= "urn:ietf:params:xml:ns:dataSet-1.0"
  xmlns:dsfDomain= "urn:ietf:params:xml:ns:dsfDomain-1.0">
  <dataSet:resultData code="1000">
    <dataSet:fields>
      <dsfDomain:fName/>
      <dataSet:fResultCode/>
      <dataSet:fResultMsg/>
      <dataSet:fResultReason/>
    </dataSet:fields>
    <dataSet:dataSetId>abc-123</dataSet:dataSetId>
    <dataSet:svTRID>54322-XYZ</dataSet:svTRID>
    <dataSet:msg>Processed successfully.</dataSet:msg>
    <dataSet:records>
      <dataSet:total>2</dataSet:total>
      <dataSet:success>2</dataSet:success>
      <dataSet:failed>0</dataSet:failed> </dataSet:records>
    </dataSet:resultData>
  </dataSet:definition>
  ...
```

```
...
-----BEGIN DATA SET-----
domain1.example,1000,,
domain2.example,1000,,
-----END DATA SET-----
```

draft-gould-regex-dataset Open Topics

- Need reviewers and feedback
- Definition of DSF types and sub-types
- Registration of DSF types and format definitions
- Does it help for the client to include the field definitions for DSFs that are pre-loaded in the server?
- Should a Web UI support just passing the DSF data with Web fields setting variables of pre-defined headers?